राज्यातील सर्व नागरी स्थानिक स्वराज्य संस्थांनी घनकचरा संकलन प्रक्रियेच्या सनियंत्रण करीता ICT BASED TECHNOLOGY च्या अंमलबजावणीकरीता ITI Ltd सोबत करारनामा करणेबाबत.

महाराष्ट्र शासन
नगर विकास विभाग
शासन निर्णय क्रमांक: स्वमअ-२०२१/प्र.क्र.१२(३)/नवि-३४
हुतात्मा राजगुरू चौक, मादाम कामा मार्ग,
मंत्रालय, मुंबई-४०० ०३२
दिनांक: ७ ऑक्टोबर, २०२१

वाचा:

१) शासन निर्णय, नगर विकास विभाग, क्रमांक: स्वभाअ-२०१५/प्र.क्र.२३/नवि-३४,दि. १५.०५.२०१५.
२) केंद्र शासनाच्या स्वच्छ भारत अभियान नागरी संदर्भातील मार्गदर्शक सूचना दि. ५.१०.२०१७
३) स्वच्छ भारत अभियान (नागरी) अंतर्गत गठीत उच्चाधिकार समितीच्या दिनांक २५/२/२०२१ रोजी संपन्न झालेल्या बैठकीचे इतिवृत्त.

प्रस्तावना:-

देशातील सर्व शहरेपूर्णपणे स्वच्छ, निरोगी आणि राहण्यायोग्य करणे आणि सर्व नागरिकांना स्वच्छ व चांगले आरोग्य आणि पर्यावरण मिळावे तसेच देशातील सर्व सांविधानिक शहरांना स्वच्छतेची आणि या शहरामधील नागरीकांना घरगुती शौचालयांची सुविधा उपलब्ध करून देणे, या उद्देशाने केंद्र शासनाने “स्वच्छ भारत अभियान (नागरी)” ची अंमलबजावणी सुरु केली आहे. या अभियानाच्या धर्तीवर संदर्भाधीन क्रमांक १ येथील शासन निर्णयान्वये राज्यामध्ये “स्वच्छ महाराष्ट्र अभियान (नागरी)” राबविण्यात येत आहे.

२. राज्यातील बहूतांश नागरी स्थानिक स्वराज्य संस्थांचे घनकचरा व्यवस्थापनाचे सविस्तर प्रकल्प अहवाल मंजूर करण्यात आले असून त्याची अंमलबजावणी नागरी स्थानिक स्वराज्य संस्था स्तरावर सुरू आहे. घनकचरा व्यवस्थापना अंतर्गत शहरातील कचऱ्याचे संकलन, वर्गीकरण, वाहतूक व शास्त्रोक्त पध्दतीने प्रक्रिया होणे आवश्यक आहे. राज्यातील स्थानिक स्वराज्य संस्थांद्वारे त्यांच्या संबंधित क्षेत्रांमध्ये सार्वजनिक/सामुदायिक शौचालये यांची सुविधा उपलब्ध करण्यात आलेली आहे. सदर शौचालयांची सद्यपरिस्थिती तसेच या शौचालयांचा वापर करणारे नागरिक यांचा शौचालयाबाबतचा अभिप्राय किंवा तक्रार नोंदणी यासाठी माहिती तंत्रज्ञानावर आधारित (ICT based) प्रणालीचा वापर होणे हे अत्यंत आवश्यक आहे.

३. केंद्र शासनाने स्वच्छ भारत अभियान (नागरी) संदर्भात मार्गदर्शक सूचना निर्गमित केल्या आहेत. सदर मार्गदर्शक सूचनामधील सूचना क्र. ११.३.२ मध्ये, नागरी स्थानिक स्वराज्य संस्था शहरात निर्माण होणाऱ्या कचऱ्याचे संकलन व वाहतूक करणाऱ्या वाहनांचे मागोवा व संनियंत्रण (Tracking and Monitoring) यासाठी मे. बी.एस.एन.एल/एम.टी.एन.एल आणि सूचना क्र. ९.९.२ मध्ये सार्वजनिक/सामुदायिक शौचालयाच्या देखरेख (Monitoring) करण्याकरीता मे. आय.टी.आय ली/टी.सी.आय ली/बी.एस.एन.एल या केंद्र शासनाच्या अखत्यारितील कंपन्यांसोबत नागरी स्थानिक स्वराज्य संस्था करार करु शकतात असे नमूद केले आहे.

४. केंद्र शासनाच्या मार्गदर्शक सूचनांच्या धर्तीवर स्वच्छ महाराष्ट्र अभियान (नागरी) च्या अंमलबजावणी करीता मा. मुख्य सचिव यांच्या अध्यक्षतेखालील असलेल्या उच्चाधिकार समितीच्या दिनांक २५/२/२०२१ रोजी पार पडलेल्या बैठकीमध्ये “घनकचरा व्यवस्थापन व शहरांच्या स्वच्छतेच्या कामांच्या परिणामकारक व्यवस्थापना करिता प्रचलीत खरेदी धोरणाचा अवलंब करून माहिती तंत्रज्ञान आधारित प्रणालीचा वापर करण्यास तत्त्वत: मान्यता देण्यात आली आहे.

५. शहरातील कचऱ्याचे संकलन, वर्गीकरण, वाहतूक व शास्त्रोक्त पध्दतीने प्रक्रिया करण्याबाबतच्या तसेच सार्वनिक व सामुदायीक शौचालयामधील स्वच्छता व सुस्थितीबाबत नागरीकांचे अभिप्राय नोंद प्रणाली, शहरातील रस्त्यावरील स्वच्छतेबाबत संनियत्रण यंत्रणा, मल निसारण वाहीन्याच्या स्वच्छतेबाबत संनियत्रण यंत्रणा, शहरातील स्वच्छतेबाबत नागरीचे अभिप्राय नोंदविण्याकरीता विशिष्ट क्रमांक उपलब्ध करून देणे, Local App तयार करणे व आधुनिक टेलिकॉम

बेस्ड तंत्रज्ञानाच्या माध्यमाने स्वछ भारत अभियानाचा प्रचार व प्रसार करणे आवश्यक आहे. या सर्व बाबी विचारात घेता, घनकचरा व्यवस्थापन व शहर स्वच्छतेच्या कामांच्या परिणामकारक व्यवस्थापनाकरीता राज्यातील सर्व नागरी स्थानिक स्वराज्य संस्थांनी माहिती तंत्रज्ञानावर आधारित प्रणालीचा (ICT based) वापर आवश्यक करण्याची बाब शासनाच्या विचाराधिन होती.

<u>शासन निर्णय-</u>

प्रस्तावनेत नमूद केल्या प्रमाणे घनकचरा व्यवस्थापन व शहर स्वच्छतेच्या कामांच्या परिणामकारक व्यवस्थापनाकरीता राज्यातील सर्व नागरी स्थानिक स्वराज्य संस्थांनी माहिती तंत्रज्ञानावर आधारित प्रणालीचा (ICT based) वापर आवश्यक असल्याचा निर्णय शासनाने घेतला आहे.

२. केंद्र शासनाने स्वच्छ भारत अभियान (नागरी) संदर्भात मार्गदर्शक सूचनामध्ये नागरी स्थानिक स्वराज्य संस्था शहरात निर्माण होणाऱ्या कचऱ्याचे संकलन व वाहतूक करणाऱ्या वाहनांचे मागोवा व संनियंत्रण (Tracking and Monitoring) यासाठी मे. बी.एस.एन.एल/एम.टी.एन.एल आणि सार्वजनिक/सामुदायिक शौचालयाच्या देखरेख (Monitoring) करण्याकरीता मे. आय.टी.आय ली/टी.सी.आय ली/बी.एस.एन.एल या केंद्र शासनाच्या अखत्यारितील कंपन्यांसोबत नागरी स्थानिक स्वराज्य संस्था करार करु शकतात असे नमूद केले आहे. परंतु याबाबत सविस्तर सेवा व त्यांचे दर नमूद केलेले नाहीत.

३. राज्यातील काही स्थानिक स्वराज्य संस्थांमध्ये घनकचरा संकलन व सदरप्रक्रियेचे सनियंत्रण हे एकाच कंत्राटदार किंवा संस्थेमार्फत होत असल्याचे निदर्शनास आले आहे. त्यामुळेच, राज्य शासनाव्दारे घनकचरा व्यवस्थापनाच्या त्रयस्था संस्थामार्फत सनियंत्रणासाठी ICT Based Technology तयार करणे व सदर प्रणालीची बंधनकारक अंमलबजावणी राज्यातील सर्व नागरी स्थानिक स्वराज्य संस्थांमध्ये करणे यासाठी केंद्र शासनाच्या अख्यत्यारितील Indian Telephone Industries Limited -A Government of India Undertaking यांची नियुक्ती करण्यात येत आहे.

४. यास्तव, Indian Telephone Industries Limited (ITI Ltd-A Government of India Undertaking) या कंपनीकडून पुरविण्यात येणाऱ्या ICT Based Technology वर आधारित सेवा व त्यांचे दर उपलब्ध करून घेण्यात आले असून ते खालील तक्त्यात नमूद करण्यात आलेले आहेत.-

No	Component	ITI Final Rates Rs.
1	ICT based Waste collection Monitoring Technology for Household/ Commercial/ Other Properties	500/- Per Property + Applicable Taxes
2	Street Sweeping Monitoring System	500/- Per Sweeping point + Applicable Taxes
3	Liquid Waste cleaning Monitoring System	500/- Per Liquid Waste cleaning point + Applicable Taxes
Kindly note that prices mentioned for above 3 components in the table are for first year only and price for first year includes installation of the system and operation and maintenance of the system for the first year only. *From the second year onwards, Operation and Maintenance cost for the technology shall be at 15% per year up to the period of seven years.		
4	Training for entire technology	15000/- Per Training + Applicable Taxes
5	Post Commission on Field Support	10000 per person per month + Applicable Taxes

५. उपरोक्त परिच्छेदात नमूद तक्त्यातील ICT Based Technology वर आधारित सेवा Indian Telephone Industries Limited (ITI Ltd-A Government of India Undertaking) यांच्यामार्फत त्यातील नमूद दरात उपलब्ध करून देण्यात येणार असल्याचे कंपनीने शासनास कळविले आहे. सदर सेवांच्या सविस्तर माहितीचा तपशिल या शासन निर्णयातील **विवरणपत्र - अ** मध्ये नमूद करण्यात आला आहे.

६. केंद्रीकृत सनियंत्रण (centralised monitoring) करिता माहिती तंत्रज्ञान आधारित प्रणालीचा (ICT Based Technology) वापर राज्यातील सर्व नागरी स्थानिक स्वराज्य संस्थांनी करणे बंधनकारक असल्याचा शासनाने निर्णय घेतला आहे.

मे. आय.टी.आय लि. द्वारे विहीत करण्यात आलेले प्रणालीचे दर उपरोक्त परिच्छेद क्रमांक ४ मध्ये नमूद करण्यात आलेले आहेत. नमूद दरापेक्षा कमी दरात या सेवा उपलब्ध झाल्यास इतर केंद्र पुरस्कृत (PSU-Govt. of India) कंपन्याकडून नागरी स्थानिक स्वराज्य संस्था या सेवा उपलब्ध करून घेऊ शकतात. तथापी, सदर केंद्र पुरस्कृत कंपनी ही किमान खालील नमूद केलेल्या पात्रता निकषांची पूर्तता करणारी असणे बंधनकारक आहे.-

अ. कंपनीकडे सरकारमान्य तांत्रिक प्रमाणपत्रे असणे आवश्यक आहे. (Collection of Solid Waste and Report Management संबंधातील Standardization Testing and Quality Certification (STQC) व The Indian Computer Emergency Response Team (CERT-IN)

ब. कंपनीकडे घनकचरा व्यवस्थापन कार्यांच्या सनियंत्रणासाठी (monitoring) वापरण्यात येणाऱ्या ICT Based Technology कामाबाबतचे महाराष्ट्रातील १० स्थानिक स्वराज्य संस्थांचे कार्यादेश व २ त्रयस्थ पार्टी तांत्रिक लेखापरिक्षण अहवाल असणे जरूरी आहे.

क. तांत्रिक प्रमाणपत्रांची issue date, कार्यादेश व त्रयस्थ पार्टी तांत्रिक लेखापरीक्षण अहवाल हे सदर शासन निर्णय जारी करण्यात आलेल्या तारखेपर्यंत असणे जरुरी आहे.

७. ITI Ltd यांचे कडून प्रणालीच्या खरेदी व अंमलबजावणीसाठी स्थानिक स्वराज्य संस्था व ITI Ltd यांच्या दरम्यान थेट करारनामा करण्यात यावा. सदर करारनाम्याची प्रक्रिया पूर्ण करण्याची जबाबदारी संबंधित महानगरपालिका आयुक्त व मुख्याधिकारी नगरपरिषद /नगरपंचायत यांची राहील. सदर कराराचा नमूना शासन निर्णयासोबतच्या **विवरणपत्र ब** मध्ये नमूद करण्यात आला आहे.

८. सदर सेवा प्रणाली राबविताना नागरी स्थानिक स्वराज्य संस्थांनी सदर कंपनीस अदा करावयाच्या देयकाच्या कालवधीबाबतचा तपशिल (Payment Schedule) **विवरणपत्र – क** मध्ये नमूद करण्यात आला आहे.

९. ICT Based Technology प्रणालीच्या अंमलबजावणीसाठी सदर शासन निर्णय हाच प्रशासकीय मान्यता व तांत्रिक मंजूरीसाठी ग्राह्य मानण्यात येईल.

१०. सदर कामांकरीता येणारा खर्च १४ व्या / १५ व्या वित्त आयोगा अंतर्गत घनकचरा व्यवस्थापनाकरीता राखीव निधी, प्रोत्साहनात्मक बक्षिस निधी, घनकचरा व्यवस्थापनाच्या सविस्तर प्रकल्प अहवालात नमूद करण्यात आलेल्या आयईसी (IEC) घटकाचा निधी किंवा नागरी स्थानिक स्वराज्य संस्थांच्या स्व:निधीतून भागविण्यात यावा.

११. Indian Telephone Industries Limited (ITI Ltd) यांचे संपर्क क्रमांक खालील प्रमाणे आहेत.

Indian Telephone Industries Limited,
National Insurance Building, 1st Floor 27 AK Nayak Marg, Fort, Mumbai- 400001
Contact No. 9145292920 Email- itiltd2021@gmail.com

१२. सदर शासन निर्णय महाराष्ट्र शासनाच्या www.maharashtra.gov.in या संकेतस्थळावर उपलब्ध करण्यात आले असून त्याचा संकेतांक २०२११००७११२०४२७८२५ असा आहे. हा परिपत्रक डिजीटल स्वाक्षरीने साक्षांकित करून काढण्यात येत आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने,

Ajit Sahebrao Palwe

Digitally signed by Ajit Sahebrao Palwe
DN: c=IN, o=Government of Maharashtra, ou=Urban Development Department, postalCode=400032, st=Maharashtra, 2.5.4.20=bcc5dbdaa52955626b8257f1105a8a62ddbd1337948a428b4e4c992e5d3bf423, serialNumber=eeec7a4defed4a9827acaa40b255e88289e62111c82bcdb7dd2fe58860768930, cn=Ajit Sahebrao Palwe
Date: 2021.10.07 11:24:54 +05'30'

(अजित पालवे)
कार्यासन अधिकारी, महाराष्ट्र शासन

प्रत,

१. मा .मुख्यमंत्री महोदयांचे प्रधान सचिव, मंत्रालय, मुंबई.

२. मा. मंत्री, नगर विकास विभाग, मंत्रालय, मुंबई
३. मा .राज्यमंत्री (नगर विकास)यांचे खाजगी सचिव, मंत्रालय, मुंबई.
४. अपर मुख्य सचिव, वित्त, नियोजन विभाग, मंत्रालय, मुंबई.
५. महालेखापाल (लेखा व अनुज्ञेयता)-१, मुंबई.
६. महालेखापाल (लेखा व अनुज्ञेयता)-२, नागपूर.
७. प्रधान सचिव (नवि-१), नगर विकास विभाग, मंत्रालय, मुंबई ३२.
८. प्रधान सचिव (नवि-२), नगर विकास विभाग, मंत्रालय, मुंबई ३२.
९. विभागीस आयुक्त सर्व
१०. आयुक्त तथा संचालक, नगरपरिषद संचालनालय, मुंबई.
११. जिल्हाधिकारी सर्व
१२. आयुक्त, सर्व महानगरपालिका.
१३. मुख्याधिकारी, सर्व नगरपरिषद/नगरपंचायत
१४. राज्य अभियान संचालक, स्वच्छ महाराष्ट्र अभियान (नागरी), मुंबई.
१५. कक्ष अधिकारी (नवि-१६), नगर विकास विभाग, मंत्रालय, मुंबई.
१६. Indian Telephone Industries Limited, २७ AK Nayak Marg, Fort, Mumbai- ४००००१
१७. निवडनस्ती, नवि-३४

शासन निर्णय क्रमांक:-स्वमअ-२०२१/प्र.क्र. १२(३)/नवि-३४ दिनांक: ७ ऑक्टोबर, २०२१ रोजीच्या सोबतचे विवरणपत्र - अ

1. ICT based Waste collection Monitoring Technology for Household/ Commercial/ Other Properties	
Sr No	**Description**
A	Design, Development, Deployment & Implementation of Household/Commercial Waste collection Monitoring technology for Door to Door Collection of each Household/commercial/other properties.
	Providing & Supplying of Scanify code stickers on each household/commercial establishment/other properties under jurisdiction of Municipal corporation/municipal Council
	The Team headed by Technical experts will visit each household/commercial/ Waste collection Points/other properties in the municipal corporation/municipal council for geo tagging of the each Household/commercial/other property on the Map
	Registration of the Households/Commercial/Other Properties into the software.
	AI techniques for analysis of garbage collected data on daily basis with time stamp and geo tagging
	Machine learning process to be implemented for garbage collection pattern collected from each household and dumped at dump yards.
	Data Centre will have all the hardware and software to be used/hub for storing, managing, maintaining and backing up all the data that is received from the application modules of attendance, scanning, photo/comment upload, work history and geo tagging from garbage collection. Application servers and database servers will be installed for the solution at the data centre to be installed at our end.
	Web based application for real-time adherence of garbage vehicles using data feeds. Advanced Technology for Real Time Tracing of Garbage Collection Vehicle on Geo Map
	Provisioning of Data Storage for 1 Year
	Quantification of waste deposited at dump yard with bifurcation of quantity of wet / dry waste available at dump yard. Detailed information regarding of trips made by each garbage collection vehicle at the dump yard with quantity of waste with bifurcation of dry/wet waste deposited by each vehicle at the dump yard.
B	Application:
	Application for Garbage Collection Employees/Drivers a) Attendance Module – To register daily in and out time by virtue of login ID and Passwords unique for each employee/driver b) Scanning Module - This feature will be provided to the waste collectors to scan the Scanify code after pickup of the waste from a location c) Photo/Comment Upload – application shall have facility to upload before/after real time photo of waste collection d) Dump Yard Scanning - Codes will be mounted at dump yard. After disposing the waste in dump yard worker will scan the code and enter the weight wise data of dry and wet waste deposited e) Work History - The work history of the employee shall be automatically registered on the application
	1) Dashboard
	Development & Deployment of Dashboard shall generate BI Reports on: a) Reports on source segregation of waste by households/commercial establishments in the city b) Reports on Ward wise collections of garbage along with patterns of garbage collection c) Report on Garbage availability in Dump Yard with quantification of Dry/Wet waste available at dump yard d) Percentage wise report of total segregated, mixed waste collection in city on daily, weekly and monthly basis e) Garbage Vehicle Route History Record f) Garbage Vehicle Trip History Tracing g) Visual Monitoring of Routes being followed by Garbage Vehicles h) Reports on of Idle Time Spent by garbage collection workers on duty i) Geo Mapping of houses with colour Coding according to garbage patterns collection j) Performance Evaluation Reports (Garbage Collection Worker Wise)

2. ICT Based Street Sweeping Monitoring System	
Sr No	**Description**
A	Providing & Supplying of Scanify code stickers on available sweeping point & Development of Dashboard/Reporting Mechanism for getting various reports Scanify Code Stickers
	Registration of the sweeping points into the software
	Provisioning of Data Storage for 1 Year

B	Application:
	Application for Sweeping point Cleaning Staff: a. Attendance Module – To register daily in and out time by virtue of login ID and Passwords unique for each sweeper b. Scanning Module - This feature will be provided to the sweepers who will scan the Scanify Code pasted on the end where sweeping has to begin. After completing the area sweeper again will scan the code placed at the end of the area which is allocated to him/her c. Photo/Comment Upload – application shall have facility to upload before/after real time photo of waste collection d. Work History - The work history of the employee shall be automatically registered on the application e. Work History - The work history of the employee shall be automatically registered on the application
C	Dashboard:
	Dashboard feature shall provide BI reports on: a. Sweeping Point wise status report b. Attendance report/Idle time spent on sweeping worker c. Performance evaluation reports- worker wise. d. Display of Geo Mapped sweeping points of the city
3. ICT Based Liquid Waste Cleaning Monitoring System	
Sr No	**Description**
A	Providing & Supplying of ScanifyCode stickers on available liquid waste cleaning point & Development of Dashboard/Reporting Mechanism for getting various reports Scanify Code Stickers
	Registration of Liquid Waste Cleaning Points into the Software
	Provisioning of Data Storage for 1 Year
B	Application:
	Application for Liquid Waste Cleaning workers: a. Attendance Module : Liquid waste cleaning worker will be provided with login Id and password for functioning of the application. Duty in time and out time will be registered on thebasis of such log in and log out. b. Liquid waste cleaning Points Scanning Module: This feature will be provided to the cleaners who will scan the Scanify Code pasted on the end where sweeping has to begin. After completing the area sweeper again will scan the code placed at the end of the area which is allocated to him/her. c. Photo/Comment Upload Module: The application shall have facility to upload before and after the real time photos regarding the liquid waste cleaning points d. Work History Module: The work history of the employee shall be automatically registered on the application
	Dashboard
C	Dashboard shall provide BI Reports on: a) Liquid waste cleaning Point wise status report b) Attendance report/Idle time spent of worker c) Performance evaluation reports- worker wise. d) Display of Geo Mapped liquid waste cleaning points of the city
4. Training of Entire Technology	
Sr No	**Description**
1	Training to be given to the municipal corporation/municipal council staff (One Time)
5. Post Commission On Field Support	
Sr. No	**Description**
I	Post Commissioning on field support by the appointed supervisor to the Municipal Corporation/Municipal Council Staff or Garbage Collection Staff/Drivers

शासन निर्णय क्रमांक:-स्वमअ-२०२०/प्र.क्र. १२(३)/नवि-३४ दिनांक: ७ ऑक्टोबर, २०२१ रोजीच्या सोबतचे विवरणपत्र-ब

This agreement is made on _______ day of _______ 2021 between

_____ Municipal Corporation/Municipal Council, District ______acting through its representative ____________ (hereinafter referred to as the ULB which expression shall, unless the context otherwise requires, include its administrators, successors and assigns) of **First Party;**

AND

Indian Telephone Industries Limited, PSU Under Department of Telecommunications, Ministry of Communications, Government of India, company registered under the companies Act 1956 having its Registered Office at _____________**acting through _________ (hereinafter called as Implementation Company)** which expression shall, unless repugnant to the context includes its successor in business, administrators, liquidators and assigns or legal representatives) of the **SECOND PARTY**.

Table of Contents

1. PARTIES TO THE AGREEMENT

This Agreement is between the following two parties

1. _______ Municipal Corporation/Municipal Council, District ____(ULB)
2. **Indian Telephone Industries Limited**, PSU Under Department of Telecommunications, Ministry of Communications, Government of India.

2. BACKGROUND

The guidelines regarding Solid Waste Management and Swachh Bharat Mission have been issued by central government. The guidelines clearly state the importance of source segregation of waste and proper disposal of the waste generated. The guideline further mentions use of ICT Based technology for monitoring of the solid waste collection procedure and source segregation of solid waste generated.

The protocol for Star Rating of Garbage Free Cities has also been launched. In GFC Parameters Door to Door Garbage Collection, Source Segregation of waste, Sweeping of Public/Commercial/ Residential areas and wet waste cleaning have been made mandatory.

Therefore, in order to comply with SWM & SBM guidelines & GFC Protocol, and according to the notification issued by Urban Development Department, Maharashtra, _____ Municipal Corporation/ Municipal Council, District ______ has invited implementation company **for implementation of ICT Based Monitoring Technology for Comprehensive Monitoring & Effective Implementation of Solid Waste Management Guidelines**

3. OBJECTIVES:

The agreement provides the framework for implementation of ICT Based Monitoring technology in _____ Municipal Corporation/Municipal Council, District _____ under the administrative control of UDD in the state of Maharashtra. The overall goal of this project is to implement a reliable centralized integrated monitoring system in the Municipal Corporation/Municipal Council. Through this platform, a solution for monitoring of all the functions of solid waste collection procedures, Street Cleaning monitoring system, liquid waste monitoring system will be provided by implementation company. In order to fulfill this goal, the project has been categorized into several objectives

i. To monitor door-to-door waste collection with segregated waste and to identify the participating and non-participating wards in door-to-door collection.
ii. To avail the data regarding quantity of wet and dry waste dumped in dump-yard.
iii. To evaluate the activities and performance of waste collection staff
iv. To establish monitoring mechanism for evaluation and monitoring of street cleaning and liquid waste cleaning activities.
v. To evaluate performance of street cleaning & Liquid waste cleaning staff
vi. To establish centralized dashboard for reporting purpose.

4. SCOPE OF WORK:

As part of this agreement, following services shall be provided by implementation company in _____ Municipal Corporation/Municipal Council, District ______.

1. Household/Commercial Solid Waste Collection Monitoring System
2. ICT Based Street Cleaning Monitoring system
3. ICT Based Liquid waste Cleaning Monitoring system

Sr No	List of Components	Description of work
1	Household/Commercial Solid Waste Collection Monitoring System: Commissioning of Digital Based Sustainable Solution for Monitoring of Door To Door Collection Of Solid Waste & Reports Management Application	Design, Development, Deployment & Implementation of ICT Based Waste collection surveillance technology for Door to Door Collection of each Household/commercial/other properties.
		Providing & Supplying of unique code stickers:- 1. On each household/commercial establishment/other properties under jurisdiction of municipal Councils 2. Two additional unique codes as per the specifications mentioned in functional specifications section to each property owners to be pasted on both the dustbins used for storing wet and dry garbage.
		The Team headed by Technical experts will visit each household/commercial/ Waste collection Points/other properties in the Municipal Corporation/Municipal Councils for geo tagging of each Household/commercial/other property on the Map
		Registration of the Households/Commercial/Other Properties into the software
		Advanced Technology for analysis of garbage collected data on daily basis with time stamp and geo tagging
		Technology for registration of garbage collection pattern collected from each household and dumped at dump yards
		Web based application for real-time adherence of garbage vehicles using data feeds. Advanced Technology for monitoring of Garbage Collection Vehicle on Geo Map.
		Provisioning of Data Storage for 1 Year
		Quantification of waste deposited at dump yard with bifurcation of quantity of wet / dry waste available at dump yard. Information regarding of trips made by each garbage collection vehicle at the dumpyard with quantity of waste with bifurcation of dry/wet waste deposited by each vehicle at the dumpyard.
2	ICT Based Street Cleaning Monitoring System	Providing & Supplying of Unique code stickers on available sweeping point & Development of Dashboard/Reporting Mechanism for getting various reports Unique Code Stickers
		Registration of the sweeping points into the software
		Provisioning of Data Storage for 1 Year
3	ICT Based Liquid Waste Cleaning Monitoring System	Providing & Supplying of Unique Code stickers on available liquid waste cleaning point & Development of Dashboard/Reporting Mechanism for getting various reports Unique Code Stickers
		Registration of Liquid Waste Cleaning Points into the Software
		Provisioning of Data Storage for 1 Year
4	Centralized Dashboard for Monitoring	Centralized role based dashboard for reporting for various level of administration: • Super Admin dashboard for State wise reporting of Garbage Collection Status for Secretariat Leve.l • Admin Dashboard for Region wise reporting of Garbage Collection Status for Divisional Commissioner/Collector Level. • ULB Specific Reporting Dashboard for Municipal Corporation/Nagar Parishad/Nagar Panchayat Administration.

Functional Specifications:

Module	Functional Specification
Dashboard of Household Solid Waste Collection Monitoring System	Dashboard feature shall provide quick and easy view to know the door-to-door garbage collection status on real time basis. It shall display status information of waste collections across the municipal area and the dumping yard. The Dashboard view shall provide the following minimum information: • Ward wise/Prabhag wise collections of garbage • Summary of the garbage patterns submitted by households • Dump yard garbage availability report with bifurcations such as quantity of wet/dry waste available • Summary of the activity at dumping area e.g. no. of vehicle trips, weight of garbage collected, etc. • Daily, weekly, monthly garbage availability in dump yard information about routes employed by garbage vehicle for garbage collection • Attendance report/Idle time spent on duty- worker wise • Performance evaluation reports- worker wise. • Display of Geo Mapped house of the city

Application for Garbage Collection Employees/Drivers

Sr. No.	Module	Functional Specification
1	Door to Door Scanning	This feature will be provided to the waste collectors who will scan the unique code after pickup of the waste from a location. The waste collection worker will mark the pattern submitted by household/commercial/other property and it will be color coded according to the pattern of the waste collected. This information will be sent to the dashboard for real-time reporting. (Color code registration)
2	Photo/Comment Upload	The application shall have facility to upload before and after the real time photos regarding waste collections or garbage dumping. The uploaded information will be sent to the dashboard for real time reporting.
3	Dump Yard Scanning	Codes will be mounted at dump yard. After disposing the waste in dump yard worker will scan the code and enter the weight wise data of dry and wet waste deposited. This information will be sent to the dashboard for real time reporting
4	Work History	The work history of the employee shall be automatically registered on the application. Such information shall be available on daily, weekly or monthly basis.
5	Attendance	Garbage collection worker/driver will be provided with login Id and password for functioning of the application. Duty in time and out time will be registered on the basis of such log in and log out. Details regarding vehicle number/vehicle type shall be inserted at the time of log in.

Application for Sweepers:-

S.No.	Module	Functional Specification
1	Sweeping Points Scanning	This feature will be provided to the sweepers who will scan the Unique code pasted on the end where sweeping has to begin. After completing the area sweeper again will scan the code placed at the end of the area which is allocated to him/her. This information will be sent to the dashboard for real-time reporting.
2	Photo/Comment Upload	The application shall have facility to upload before and after the real time photos regarding the sweeping points. The uploaded information will be sent to the dashboard for real time reporting.
3	Work History	The work history of the employee shall be automatically registered on the application. Such information shall be available on daily, weekly or monthly basis.
4	Attendance	Sweeper will be provided with login Id and password for functioning of the application. Duty in time and out time will be registered on the basis of such log in and log out.

Module	Functional Specification
Dash board of Street Sweeping Monitoring System	a. Dashboard feature shall provide quick and easy view to know sweeping status on real time basis. It shall display status information of sweeping points across the municipal area. The Dashboard view shall provide the following minimum information: a. Sweeping Point wise status report b. Attendance report c. Performance evaluation reports- worker wise. d. Display of Geo Mapped sweeping points of the city

Application for Liquid waste cleaning staff

S.No.	Module	Functional Specification
1	Sweeping Points Scanning	This feature will be provided to the cleaners who will scan the Unique code pasted on the end where sweeping has to begin. After completing the area sweeper again will scan the code placed at the end of the area which is allocated to him/her. This information will be sent to the dashboard for real-time reporting.
2	Photo/Comment Upload	The application shall have facility to upload before and after the real time photos regarding the liquid waste cleaning points. The uploaded information will be sent to the dashboard for real time reporting.
3	Work History	The work history of the employee shall be automatically registered on the application. Such information shall be available on daily, weekly or monthly basis.
4	Attendance	Liquid waste cleaning worker will be provided with login Id and password for functioning of the application. Duty in time and out time will be registered on the basis of such log in and log out.

Module	Functional Specification
Dashboard of Liquid Waste Cleaning Monitoring System	Dashboard feature shall provide quick and easy view to know liquid waste cleaning status on real time basis. It shall display status information of liquid waste cleaning points across the municipal area. The Dashboard view shall provide the following minimum information: a) Liquid waste cleaning Point wise status report b) Attendance report c) Performance evaluation reports- worker wise. d) Display of Geo Mapped liquid waste cleaning points of the city

Unique Codes on property:

S.No.	Module	Specification
1.	Type	3 mm Foam Sheet Printed with UV print
2.	Print	Print unique code with name and logo of Municipal Corporation/Nagar Parishads/Nagar Panchayats with unique Identification Number
3.	Size	95mm x 70mm
4.	Fixing Details	Shall be able to fix with adhesive tape, Self adhesive tape double sided polyester
5.	Operation Temp.	0 to 60 degrees
6.	Weather	Heat, dust proof & waterproof

Unique QR Code Sticker for Dry and Wet Dustbin

Sr No	Particulars	Specifications
1	Type	Venyl, Non tearable Sticker
2	Size	3 inch * 4 inch
3	Print	Print Unique QR Code with Unique Identification number
4	Fixing	Shall be able to stick to the both dustbins, Dry and Wet
5	Operation Tempreture	0 to 50 degrees
6	Durability	Waterproof

5. OBLIGATION OF THE PARTIES

Municipal Corporation/Municipal Council:

1. Inline with the Office Order / Recommendations of UDD, Municipal Corporation/Nagar Parishad/Nagar Panchayat shall appoint nodal officer within 15 days for coordination in implementation of the project. Such nodal officers shall be Deputy/Additional Commissioner in case of Municipal Corporations Chief Officer in case of Municipal Council.

2. To issue local circular to all citizens regarding the work and make available the copy of the circular to implementation company implementation team members.

3. To provide necessary protection & Local Support to the implementation team.

4. To provide appropriate space in the ULB office for the supervisor of the implementation company for proper functioning of project related activities and co-ordination with ULB Nodal Officer.

5. ULB nodal officer, upon submission of the implementation reports by implementation company regarding the work implemented in the ULB, shall verify all the reports. Objections or clarifications if any, shall be communicated to the implementation company within one week of submission of such report, if no such objection or clarification is raised then all submitted reports will be treated as correct, verified and accepted.

6. The basic objective of the ICT Based technology is to have centralized monitoring system for monitoring of garbage collection activities. If any Municipal Corporation/Municipal Council has already procured the similar kind of ICT Based monitoring system, then such Municipal Corporation/Municipal Council would integrate their existing system with the system developed by Implementation Company within one month days of issuance of notification by Urban Development Department. If such integration is not done within one month days, then such Municipal Corporation/Municipal Council will have to commission the ICT Based monitoring system developed by implementation company.

7. Post implementation of this project, it is the responsibility of the Municipal Corporation/Municipal Council to ensure that every concerned officer or staff should attain the training of the technology conducted by implementation company. Municipal Corporation/Municipal Council should also ensure availability of proper infrastructure required for training.

8. Post training, the respective Municipal Corporation/Nagar Parishad/Nagar Panchayat shall use the project independently and operate the project after handover of the project by ITI ltd.
9. To have effective implementation and to achieve the desired results from the technology, scanning of codes pasted on household/commercial/other properties in the respective Municipal Corporation/Nagar Parishad/Nagar Panchayat is of utmost importance. Therefore, it is the sole responsibility of garbage collection vehicle staff to scan the codes after garbage collection from respective property. Administration should ensure that such scanning is a daily practice while garbage collection procedure. It is the responsibility of the ULB / garbage collection contractor to supply the smartphones needed to scan the codes pasted on properties to garbage collection staff.
10. implementation company implementation team shall paste the codes only once on the properties/sweeping points/liquid waste cleaning points of the ULB. It is the duty of the nodal officer appointed by ULB to check and verify the work of pasting of codes. In case, such pasted codes are damaged by any third party then, ULBs can issue notification to implementation company and implementation company shall supply the codes as per the rate INR 60/- Per code within one month. Bills/Invoices regarding such changes shall be submitted to the ULB by implementation company.

IMPLEMENTATION COMPANY:

1. Team appointment- It is the responsibility of the implementation company to appoint the project implementation team in respective ULBs.
2. implementation company shall bear the cost of lodging, boarding and other amenities to be provided to the implementation team.
3. To Appoint State Level Nodal Officer for co-ordination with UDD & ULB for smooth implementation of the project.
4. To appoint Municipal Corporation/Nagar Parishad/Nagar Panchayat level project supervisors for smooth implementation of technology in ULB.
5. Awareness Creation among the local citizens regarding implementation of the ICT Based Technology is most important factor in successful implementation of the technology. Hence to achieve this objective, 5 Informative Banners regarding Technology (size 5 ft x3 ft) shall be erected by the Company in premises of the Municipal Corporation/Municipal Council.
6. To issue identity card duly certified by Municipal Corporation/Nagar Parishad/Nagar Panchayat administration for each appointed team member.
7. Training- It is the responsibility of the implementation company to conduct one-time training of entire technology for Municipal Corporation/Nagar Parishad/Nagar Panchayat officers and to the garbage collection workers.
8. Implementation report- implementation company shall submit all implementation reports to ULB nodal officer and also submit copy of the reports to state level nodal officer of UDD of works implemented at Municipal Corporation/Nagar Parishads/Nagar Panchayats.
9. If any changes have to be made in the technology due to changes in laws or regulations of SWM or any other concerned government department, then such upgradations will be communicated to the implementation company. The implementation company in turn, will make necessary upgradations with additional cost as per the mutual discussion between UDD and implementation company.
10. implementation company team shall affix the unique code to each property/sweeping points/liquid waste cleaning points in the ULB.
11. After affixing the code, technical expert in the team shall perform the geo mapping of the property.
12. The house/property owners/sweeping points/liquid waste cleaning points data procured after visits will be entered in the software developed by the technical team of implementation company.
13. Mobile application for Garbage Vehicle Staff shall be developed by implementation company technical team.

6. AGREEMENT TERM:

This Memorandum commences on _________ and will remain in force for 7 years. The memorandum can be extended further by the mutual consent of all the parties.

7. OPERATIONS & MAINTAINENCE

implementation company shall provide Operation and Maintenance support for all the proposed solution as outlined in this document at 15% per year for second year onwards upto period of seven years.

8. Payment Terms:

Sr. No.	Milestone	Deliverables	Max Timelines (T = Date of Agreement signed by ULB)	Payment Terms
1.1	**Phase I: Mobilization Advance**			
	Mobilization Advance	Project Initiation & Mobilization Advance for ICT Based Monitoring Technology for Comprehensive Monitoring for effective implementation of Solid Waste Management Guidelines	T	10% of total Project Cost
Phase II: Implementation – ULB Wise Implementation				
		1. Commissioning of Digital Based Sustainable Solution for Monitoring of Door To Door Collection of Solid Waste & Reports Management Application	T + 9 Months	Within 15 days of submission of bills by Company (After Mobilisation Advance Adjustments)
		Providing & Supplying of Unique code stickers on each households/commercial/other properties under jurisdiction of ULB Registration of the properties into the software		
		For Municipal Corporation/Nagar Parishads/ Nagar Panchayats having properties above 3000, invoice can be raised at minimum 3000 properties or more		
		For Municipal Corporation/Nagar Parishads/ Nagar Panchayats having properties bellow 3000, single invoice can be raised after work completion of properties in that particular ULB		
		2. <u>ICT Based Street Sweeping Monitoring System on Sweeping Points in ULB:</u>	T + 9 Months	Within 15 days of submission of bills by Company (After Mobilisation Advance Adjustments)
		Providing & Supplying of Unique code stickers on available sweeping point & Development of Dashboard/Reporting Mechanism for getting various reports Unique Code Stickers		
		For Municipal Corporation/Municipal Councils having more than 50 sweeping points, invoice can be raised at minimum 50 sweeping points or more		
		For Municipal Corporation/Municipal Councils having less than 50 sweeping points, single invoice can be raised		
		3. <u>ICT Based Liquid Waste Cleaning Monitoring System</u>	T + 9 Months	Within 15 days of submission of bills by Company (After Mobilisation Advance Adjustments)
		Providing & Supplying of Unique code stickers on available liquid waste cleaning points & Development of Dashboard/Reporting Mechanism for getting various reports Unique Code Stickers		
		For Municipal Corporation/Municipal Councils having more than 50 liquid waste cleaning points, invoice can be raised at minimum 50 liquid waste cleaning points or more		
		For Municipal Corporation/Municipal Councils having less than 50 liquid waste cleaning points, single invoice can be raised		
2	**Phase II - Centralized ICT Implementation**			
2.1		Training of Technology (One Time)	T + 9 Months	Within 15 days of submission of bills by Company
		Salary of Supervisors for post commissioning support of technology.	T + 84 Months	Per Person/Per Month

A. The above-mentioned project timelines are indicative, however if the implementation company completes the project activities as per the milestones, then it is eligible to raise invoices for payments against the achieved milestones or earlier.

B. 30% Mobilization Advance shall be paid to implementation company for implementation of ICT Based Monitoring Technology.
C. implementation company shall raise invoices in line with the above-mentioned schedule to the ULB and the payments against the invoices shall be paid by the respective urban local bodies within 15 days of submission of invoice.
D. The payments for the procurement of technology shall be done by the ULB from 14^{th} / 15^{th} Finance Commission fund, Incentive Fund, Fund reserved for Solid Waste Management in DPR, Nagri Dalittetar Vasti Sudharana Fund, IEC Fund or Municipal Corporation/Municipal Council's own fund or Capacity Building Fund.
E. In the event of delay in payment of bill by Municipal Corporation/Municipal Council beyond the period of one month from date of submission of invoice, a payment surcharge shall be payable by respective Municipal Corporation/Municipal Council to the Implementation Company at the rate of 2 percent in excess of SBIPLR for the time being, on amount of outstanding payment, calculated on day to day basis (and compounded on monthly rest) on per annum basis for each day of the delay.
F. For payment of complete bill within 15 days of submission of invoice a rebate of 0.5% shall be allowed. If payments are made after 15 days but within period of 20 days of submission of invoice by Implementation Company a rebate of 0.25% shall be allowed.
G. All the statutory taxes should be charged extra as per Government guidelines and at the prevailing rates at the time of the agreement.
H. All statutory taxes/duties will be reimbursed by ULBs to implementation company on actuals

9. **PENELTIES**:

Penalties will be imposed on non-completion of work within required timeframe in following manner.

Project Name	Completion Milestone	Penalty Clause
ICT Based Monitoring Technology for Comprehensive Monitoring for effective implementation of Solid Waste Management Guidelines	T + 9 Months (T = **Date of Agreement signed by ULB)**	If the work is not completed within T + 9 Months timeframe, then penalty of INR 500 Per day will be imposed to the maximum to the extent of INR 10000.

10. **TERMINATION FOR DEFAULT:**

Dispute Resolution: Any disputes and or difference relating to this agreement or claims arising out of or relating to this agreement or breach, termination or the invalidity thereof or on any issue whether arising during the progress of the services or after the completion or abandonment thereof or any matter directly or indirectly connected with this agreement will be resolved through joint discussion of the authorized representatives of both the parties. If the dispute is not resolved by joint discussion, then the matter will be referred for adjudication to a sole Arbitrator appointed by The Arbitration and Conciliation Act, 1996 with subsequent amendments on receipt of written notice / demand of appointment of Arbitrator from either party. The award of the sole Arbitrator shall be final and binding on all the parties. The cost of Arbitration shall be borne by the respective parties equally. Arbitration proceedings will be held at Mumbai only.

11. **Events of Default (IMPLEMENTATION COMPANY)**

Any of the following events shall constitute an event of default unless such event has occurred as a result of one or more reasons set out in clause (no breach of obligation), unless such event has occurred as a result of a Force Majeure Event:

I. If implementation company fails to execute the Project or services specified in the agreement
II. If implementation company fails to meet the conditions specified in Condition of contract;
III. implementation company has repudiated this agreement or has otherwise expressed an intention not to be bound by this document.
IV. implementation company has otherwise been in Breach of any of its other obligations and terms and conditions under this document.
V. A resolution has been passed by the shareholders of the Bidder for the voluntary winding up of the implementation company;
VI. Any petition for winding up of has been admitted and liquidator or provisional liquidator has been appointed or the Bidder has been ordered to be wound up by Court of competent jurisdiction

ULB Event of Default

Each of the following events or circumstances to the extent caused by default of the ULB and If not cured within cure period which is 60 days from date of notice of default from implementation company shall be considered for the purpose of this agreement as event of default of the ULB:

I. If the ULB is in the breach of its obligations under this agreement

II. If ULB has repudiated this agreement or has otherwise expressed an intention not to be bound by this document.
III. The ULB/or UDD fail to pay the implementation company the consideration as applicable

12. **Termination :** If ULB or implementation company, having become entitled to do so decides to terminate this Agreement pursuant to the preceding clause (termination due to event by default), it shall issue Termination Notice of 60 days setting out: in enough detail the underlying Event of Default;

    I. the Termination Date which shall be a date occurring not earlier than 60 days from the date of Termination Notice;

    II. the estimated Termination Payment including the details of computation thereof and; any other relevant information

The Termination Payment, if any, payable by the ULB is paid to the implementation company before the Termination Date

- In case of termination, ULB shall be liable to pay 90% of project cost as compensation to the implementation company minus the amount paid till termination of the agreement.

On receiving the due payment, the Project Facilities are handed over to UDD by the implementation company on the Termination Date.

13. **FORCE MAJEURE:**

A Force Majeure event means any event or circumstance, or a combination of events and circumstances referred to in this Clause, which may be classified as all or any of the following events:

(a) act of God, including earthquake, flood, inundation, landslide, exceptionally adverse weather conditions, storm, tempest, hurricane, cyclone, lightning, thunder, volcanic eruption, fire or other extreme atmospheric conditions;
(b) radioactive contamination or ionizing radiation or biological contamination;
(c) a strike or strikes or other industrial action or blockade or embargo or any other form of civil disturbance (whether lawful or not), in each case affecting on a general basis the industry related to the affected Services and which is not attributable to any unreasonable action or inaction on the part of the Bidder or any of its Subcontractors or suppliers and the settlement of which is beyond the reasonable control of all such persons;
(d) general strikes, lockouts, boycotts, labor disruptions or any other industrial disturbances not arising on account of the acts or omissions of the Bidder and which affect the timely implementation and continued operation of the Project;
(e) An act of war (whether declared or undeclared), hostilities, invasion, armed conflict or act of foreign enemy, blockade, embargo, prolonged riot, insurrection, terrorist or military action, civil commotion or politically motivated sabotage, for a continuous period exceeding seven (7) days. For the avoidance of doubt, it is clarified that any negligence in performance of Services which directly causes any breach of security like hacking are not the forces of nature and hence wouldn't be qualified under the definition of "Force Majeure". In so far as applicable to the performance of Services, Service Provider will be solely responsible to complete the risk assessment and ensure implementation of adequate security hygiene, best practices, processes and technology to prevent any breach of security and any resulting liability there from (wherever applicable).

14. **BILL OF QUANTITY:**

Sr. No.	Work Description	Unit	Costing (in INR)
1	**Household/Commercial Solid Waste Collection Monitoring System:**		
	Development of Digital Based Sustainable Solution for Monitoring of Door to Door Collection of Solid Waste & Reports Management Application with User Marking System & Other Related Works To prepare software for Unique Code and support for software	**Per Property**	**INR 500 + Applicable Taxes**
	Providing & Supplying of Unique code stickers on each household under jurisdiction of Municipal Corporation/Municipal Council		
	Registration of the Households/Commercial/Other Properties into the software		
	Providing & Supplying of Unique code stickers on each CT/PT under jurisdiction of Municipal Corporation/Municipal Council		
	Registration of the Toilets into the software		

2	**ICT Based Street Sweeping Monitoring System:**		
	Providing & Supplying of Unique code stickers on available sweeping point & Development of Dashboard/Reporting Mechanism for getting various reports Unique Code Stickers	**Per Point**	**INR 500 + Applicable Taxes**
	Registration of the sweeping points into the software		
3	**ICT Based Liquid Waste Cleaning Monitoring System**		
	Providing & Supplying of Unique code stickers on available liquid waste cleaning point & Development of Dashboard/Reporting Mechanism for getting various reports Unique Code Stickers	**Per Point**	**INR 500 + Applicable Taxes**
	Registration of Liquid Waste Cleaning Points into the Software		
4	Training of the entire system to the ULB staff (One Time)	**NOS**	**INR 15000+ Applicable Taxes**
5	Post Commission On field support to the Staff	**Per Person/ Per month**	**INR 10000 + Applicable Taxes**

15. SIGNATURES:

IN WITNESS WHEREOF, The Parties have entered into this Agreement, the day and year as mentioned.

Name

Designation

Executed for ULB
By its duly Authorised Representatives

Witness 1

Witness 2

Name

Designation

Executed for IMPLEMENTATION COMPANY
By its duly Authorised Representatives

Witness 1

Witness 2

शासन निर्णय क्रमांक:-स्वमअ-२०२०/प्र.क्र. १२(३)/नवि-३४ दिनांक : ७ ऑक्टोबर, २०२१रोजीच्या सोबतचे
विवरणपत्र-क

Sr. No.	**Component**	**Payment Schedule**
1	Project Initiation & Mobilization Advance for ICT based Monitoring Technology	Upon Agreement Signing
2	Commissioning of Digital Based Sustainable Solution for Monitoring of Door To Door Collection of Solid Waste & Reports Management Application	Within 15 days of submission of invoice (After adjusting Mobilization Advance)
	For Municipal Corporation/Nagar Parishad/Nagar Panchayats having properties above 3000, invoice can be raised at minimum 3000 properties or more	
	For Municipal Corporation/Nagar Parishad/Nagar Panchayats having properties bellow 3000, single invoice can be raised after work completion of properties in that particular ULB	
3	ICT Based Street Sweeping Monitoring System on Sweeping Points in ULB:	Within 15 days of submission of invoice (After adjusting Mobilization Advance)
	For Municipal Corporation/ Municipal Councils having more than 50 sweeping points, invoice can be raised at minimum 50 sweeping points or more	
	For Municipal Corporation/Municipal Councils having less than 50 sweeping points, single invoice can be raised	
4	Training of the Entire Technology	Within 15 days of submission of invoice
5	Post commission on field support.	Per Person/Per Month & Within 15 days of Submission of Invoice

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